INDEX TO VOLUME 154

A c-GLOBULIN and prothrombin, 122, 134 Acidosis, alkali therapy, 480 Adrenals, diet and enzymes, 489 Adrenals

and hypertension, 465 and muscle action potential, 63 and nitrogen metabolism, 87 and renal function, 229

Adrenals in hypoxia, 397 Ahlquist, R. P., 6

Alkali therapy of acidosis, 480

ALLEN, T. H. AND P. D. ORAHOVATS. Spectrophotometric measurement of traces of the dye T-1824 by extraction with cellophane from both blood serum and urine of normal dogs, 27 Alloxan diabetes in dogs and glucose metabolism

after hemorrhage, 107 Alloxan diabetes in sheep, 94 Alloxan and nitrogen metabolism, 87 Altitude anoxia and renal function, 193, 201 Androgen and plasma protein, 459 Anesthesia

Anesthesia
and thorax pressure reflex, 428
ether and cyclopropane, 475
intracranial novocain, in frogs, 80
Anoxia and blood sugar and dextrose tolerance,

423 Arterial pressure response to valsalva test, 316

ASHMAN, R., 241 Atrophy of skeletal muscle, 451

Balistocky, M., 38 Bartlett, M. N., 489

BEATTY, C, H. A comparison of glucose metabolism after hemorrhage in non-diabetic, alloxan diabetic and depancreatized dogs, 107

BEECHER, H. K., M. F. WARREN AND A. MURPHY. Comparison of cyclopropane and ether anesthesia on lymph production, 475

Berliner, R. W., T. J. Kennedy, Jr. and J. G. Hilton. Salyrgan and renal tubular secretion of para-aminohippurate in the dog and man, 537

Bile excretion, 211, 506 Blood

Ac-globulin, 119, 134, 140

coagulation, acceleration, 140 and dye disappearance rate, 19

Blood pressure and DCA, 119 Blood sugar during anoxia, 423

Body temperature and convulsive seizures, 207 Borison, H. L. Electrical stimulation of the neural mechanism regulating spasmodic respiratory acts in the cat, 55

BOUTWELL, R. K., M. K. BRUSH AND H. P. RUSCH. Some physiological effects associated with chronic restriction, 517

Brain metabolism, 73

Brown, E. B., Jr., 185

BRUSH, M. K., 517

BUCCIERO, M. C. AND J. M. ORTEN. Choline and the production of polycythemia by cobalt in the rat, 513

BYER, E., 241 BYERS, S. O., 167

Campbell, G. S., E. B. Brown, Jr. and F. Gollan. Plasma inorganic phosphate concentration and hyperventilation in the dog, 185

CANTAROW, A., C. W. WIRTS, W. J. SNAPE AND L. L. MILLER

Effect of certain choleretic agents on excretion of pigment and bromsulfalein in bile, 506

Excretion of bilirubin and bromsulfalein in bile, 211

Capillary permeability and cholesterol, 16
Capillary permeability and vitamin D, 19
Carbon dioxide and agene-induced canine epilepsy, 439

Cardiac effects of hypertonic solutions, 328 Cardiac output, 290

Cardiac output in hypoxemia, 391
Cardiac response to ventricular shunts, 281

Cardiac response to ventricular shunts, 281 Cardiac slowing and hypertonic solutions, 336

Cardiac stroke volume and respiration, 273 Cardiodynamics of experimental interventricular communications, 281

Cellophane measurement of T-1824, 27 Cerebellum and agene-induced canine epilepsy,

Cerebral ischemia and hypertension, 45 CHATFIELD, P. O. AND S. MEAD. Role of the vagi in the crossed phrenic phenomenon, 417

H

H

CHERNOFF, H. M., 369

Choleretic agents and rate of biliary excretion, 506

Cholesterol and capillary permeability, 16

Choline and production of polycythemia in the rat, 513

Cholinesterase levels, 495

Chronic caloric restriction, 517

Churney, L., R. Ashman and E. Byer. Electrogram of turtle heart strip immersed in a volume conductor, 241

COLEMAN, D. H., 465

Convulsive seizures and body temperature, 207
CORCORAN, A. C., G. MASSON, R. REUTING AND
I. H. PAGE. Measurement of renal functions
in rats, 170

Cyclopropane and ether anesthesia, 475

Dawson, R. M. C., 73

DCA and blood pressure, 119

DCA and hypertension, 465

DEYRUP, I. J., 328

Deyrup, I. J. and W. W. Walcott. Mechanism of vagel cardiac slowing following intravenous injection of small volumes of strongly hypertonic solutions, 336

Diabetes and nitrogen metabolism, 87

Diet and enzymes, 489

DILLON, W. H., 258, 290

DILLON, W. H. AND H. SCHREIBER, JR. Cardiodynamics of experimental interventricular communications, 281

Duomarco, J., 258

DUOMARCO, J. L., W. H. DILLON AND C. J. WIGGERS. Comparison of cardiac output by direct method and Hamilton-Remington procedure, 290

DYE, J. A., 94

DYE T-1824

cellophane measurement of, 27 and plasma volume determination, 27 and vitamin D, 19

ELECTRICAL ENERGY, stomach production of, 148

Electrical injury and shock, 38

Electrical stimulation on atrophy of skeletal muscle, 451

Electrocardiogram of the chicken, 251

Electrogram of heart strip, 241

Emotional excitement and brain metabolism, 73 Enzymes and diet, 489 Epilepsy, canine, agene-induced, 439 Esophagus, nervous control, 343

 $F_{\text{ahey}, J. L., 140}$

Fahey, J. L., A. G. Ware and W. H. Seegers. Stability of prothrombin and Ac-globulin in stored human plasma as influenced by conditions of storage, 122

Feldman, M., Jr., S. Rodbard and L. N. Katz. Relative distribution of cardiac output in acute hypoxemia, 391

FOWLER, W. S. Lung function studies. II.
The respiratory dead space, 405

FRIEDMAN, M. AND S. O. BYERS. Effect of sodium salicylate upon the uric acid clearance of the dalmatian dog, 167

Fructose utilization and thiamine, 499

FUTCHER, P. H., 220

G_{ELLHORN}, E., 433

GLASSER, O. AND I. H. PAGE. Experimental hemorrhagic shock; a study of its production and treatment, 297

Glucose metabolism after hemorrhage, 107

GOLDMAN, M. L., 220

GOLLAN, F., 185

Green, D. M., D. H. Coleman and M. Mc-Cabe. Mechanisms of desoxycorticosterone action. II. Relation of sodium chloride intake to fluid exchange pressor effects and survival, 465

GREISHEIMER, E. M., 480

GROSSMAN, M. I., 343, 358

GUYTON, A. C. Acute hypertension in dogs with cerebral ischemia, 45

Hamilton, A. S. Study of in vitro methods for the demonstration of iso-agglutination with the bloods of normal and of ill dogs, 525

HAMILTON, W. F., 6

HARDENBERGH, E., 316

HAWKINS, R. D., 495

Heart, chicken, and electrocardiogram, 251

Heart strip, turtle, electrogram, 241

Heat maintenance and nervous control, 82

HEILBRUNN, L. V., 38

HELLER, J. H., 542

Hemoglobulin excretion and bovine albumin injection, 532

Hemorrhage

and glucose metabolism, 107 and nitrogen metabolism, 87

Hemorrhagic shock, 207

SEEGERS.

N. KATZ.

Effect of clearance

adies. II.

erimental roduction

107

M. Mccosterone loride inects and

in dogs

methods itination logs, 525

251 82

albumin

HILTON, J. G., 537 HOKIN, L. E., 148

Hormonal control of pancreatic secretion, 358
HWANG, K., M. I. GROSSMAN AND A. C. IVY.
Nervous control of cervical portion of esopha-

gus, 343

gus, 343 Hypertension and cerebral ischemia, 45 Hypertension, salt and adrenals, 465 Hypertonic solutions, cardiac effects, 328, 336 Hyperventilation and plasma phosphate, 185 Hypoxemia

and cardiac output, 391 and pressor responses, 397

Interventricular cardiodynamics, 281 Interventricular cardiodynamics, 281 Intracranial novocain anesthesia, 80 Iso-agglutination in dog blood, 525 Isotonic glucose, effect on frog muscle, 455 Ivy, A. C., 343, 358

KATZ, L. N., 397, 391 KAUFMAN, W., 369

Keller, A. D. Descending nerve fibers subserving heat maintenance functions coursing with the cerebrospinal tracts through the pons, 82

KELLEY, V. C., 193

Kelley, V. C. and R. K. McDonald. Further observations on effects of altitude anoxia on renal function, 201

KENNEDY, T. J., 537

KISCH, B. Intracranial novocain anesthesia in frogs, 80

KLINE, D. L. Effect of alloxan, pancreatectomy and adrenalectomy on plasma amino nitrogen in the dog as studied by means of hemorrhage, 87

KOCHAKIAN, C. D., M. N. BARTLETT AND J. MOE. Effect of high protein and high carbohydrate diets on the arginase and phosphatases of the liver and kidney of the normal and adrenalectomized rat, 489

KOSMAN, A. J., E. C. WOOD AND S. L. OSBORNE. Effect of electrical stimulation upon atrophy of partially denervated skeletal muscle of the rat, 451

KRISS, J. P., P. H. FUTCHER AND M. L. GOLD-MAN. Unilateral adrenalectomy, unilateral splanchnic nerve resection and homolateral renal function, 229

Leathem, J. H. Plasma protein concentration and organ weights of castrated and testosterone propionate treated rats, 459

LIPPMAN, R. W. Mechanism of proteinuria. Effect of parenteral bovine albumin injection on hemoglobin excretion in rats, 532

LITTLE, R. C., 258

LOOFBOURROW, G. N. AND E. GELLHORN. Proprioceptively induced reflex patterns, 433 Lymph production and cyclopropane and ether anesthesia, 475

Main, E., 220 Masson, G., 170 McCabe, M., 465

McCandless, E. L., B. A. Woodward and J. A. Dye. Alloxan diabetes in sheep under fasting and non-fasting conditions, 94

McDonald, R. K. and V. C. Kelley. Effects of altitude anoxia on renal function, 193

McDonald, R. K., 201

MEAD, S., 417

Metabolism and chronic inanition, 188

Metabolism of thyroxine in the goat, 1

MENAKER, W. Buffer equilibria and reabsorption in the production of urinary acidity, 174

Mendel, B., R. D. Hawkins and M. Nishikawara. Cholinesterase levels in plasma and tissues, 495

MILLER, L. L., 211, 506

MOE, J., 489

MONROE, R. A. AND C. W. TURNER. Metabolism of thyroxine in the goat, 1

MOREAU, L., M. BALISTOCKY AND L. V. HEIL-BRUNN. Shock due to electrical injury in frogs, 38

Motion sickness in dogs, 443

MURPHY, A., 475

MURPHY, R. C. AND W. H. SEEGERS. Concentration of prothrombin and Ac-globulin in various species, 134

Muscle action potentials, 63

Muscle, frog, effect of isotonic glucose, 455

MYLON, E. AND J. H. HELLER. Renal glutaminase, 542

NAHUM, L. H., H. M. CHERNOFF AND W. KAUFMAN. Derivation of leads I and III in the dog from an analysis of simultaneously recorded leads VR, VL and VF, 369

NELSON, W. E., 480

Nervous control of esophagus, 343

Nervous control of heat maintenance, 82

Renal function

Neural mechanism and spasmodic respiration, 55 Nishikawara, M., 495 Nitrogen metabolism and alloxan diabetes, 87 Noble, R. L. Adaptation to experimental motion sickness in dogs, 443 Northup, D. W., 423

OPDYKE, D. F., J. DUOMARCO, W. H. DILLON, H. SCHREIBER, R. C. LITTLE AND R. D. SEELY. Study of simultaneous right and left atrial pressure pulses under normal and experimentally altered conditions, 258

OPPENHEIMER, M. J., 480 ORAHOVATS, P. D., 27 ORTEN, J. M., 513 OSBORNE, S. L., 451

Page, I. H., 170, 297 PAH, renal tubular secretion, 537 Pancreatectomy and glucose metabolism after hemorrhage, 107 Pancreatic control and hormonal control, 358 PHILLIPS, N. E., 188 Plasma Ac-globulin activity, 119, 134, 140 Plasma, cholinesterase levels, 495 Plasma phosphate and hyperventilation, 185 Plasma protein and androgen, 459 Plasma and prothrombin activity, 119, 134 Platelet extracts and blood coagulation, 140 POLLOCK, G. H., 439 Polycythemia in the rat, and choline, 513 Pressor responses to hypoxemia, 397 Proprioceptive reflexes, 433 Proteinuria, mechanism of, 532 Prothrombin and Ac-globulin, 122, 134

Quimby, F. H., N. E. Phillips and I. U. White. Chronic inanition, recovery and metabolic rate of young rats, 188

Redondo Ramirez, H. P., 428

Reed, C. I., 19

Reed, E. A., 428

Reflex patterns proprioceptively induced, 433

Rehm, W. S. and L. E. Hokin. Ability of the stomach to produce electrical energy, 148

Remington, J. W., W. F. Hamilton and R. P. Ahlquist. Interrelation between the length of systole, stroke volume and left ventricular work in the dog, 6

Renal functions, measurement of, 170

and adrenals, 229
and altitude anoxia, 193, 201
and uranium, 220
Renal functions in rats measurement, 170
Renal glutaminase, 542,
Renal tubular secretion of PAH, 537
Respiration and cardiac stroke volume, 273
Respiration, spasmodic, and neural mechanism, 55
Respiration under deep pentothal anesthesia, 428

Respiratory dead space, 405
REUTING, R., 170
RICHTER, C. P. Nutritive value of fructose for rats and effects produced on its utilization by thiamine, 499

RICHTER, D. AND R. M. DAWSON. Brain metabolism in emotional excitement and in sleep, 73

ROBINSON, H. W., E. M. GREISHEIMER, M. J. OPPENHEIMER AND W. E. NELSON. Alkali therapy of ammonium chloride acidosis in dogs, 480

RODBARD S., 391 RUSCH, H. P., 517

Salt excretion in desert mammals, 163 Salt and hypertension, 465 Saris, D., 428

SARNOFF, S. J., E. HARDENBERGH AND J. L. WHITTENBERGER. Mechanism of arterial pressure response to the valsalva test: the basis for its use as an indicator of intactness of sympathetic outflow, 316

Schmidt-Nielsen, K., B. Schmidt-Nielsen and H. Schneiderman. Salt excretion in desert mammals, 163

SCHMIDT-NIELSEN, B., 163

SCHNEIDERMAN, H., 163 SCHREIBER, H., 258, 281

Scott, J. C., E. A. Reed, D. Saris and H. P. Redondo Ramirez. Role of the Herring-Breur reflex under deep pentothal anesthesia, 428

SEEGERS, W. H., 122, 134, 140

SEELY, R. D., 258

SEELY, R. D. Dynamic effect of inspiration on simultaneous stroke volumes of right and left ventricles, 273

Shock due to electrical injury, 38

Shock, experimental hemorrhagic, 297

SILVER, A. F. Cholesterol and capillary permeability, 16

170

, 273 echanism, hesia, 428

ictose for

rain melin sleep,

R, M. J. Alkali idosis in

on J. L. arterial the basis etness of

SEN AND n desert

Herringesthesia,

ation on and left

perme-

SILVER, A. F. AND C. I. REED. Vitamin D and the disappearance of T-1824 from the blood, 19 SILVER, M. L. AND G. H. POLLOCK. Role of carbon dioxide and of the hindbrain in agene-

induced canine epilepsy, 439 Simultaneous atrial pressure pulses, 258

Sleep and brain metabolism, 73

SNAPE, W. J., 211, 506

Sodium salicylate and uric acid clearance, 167 STICKNEY, J. C., D. W. NORTHUP AND E. J. VAN LIERE. Blood sugar and dextrose tolerance

during anoxia in the dog, 423
Stomach production of electrical energy, 148
STURKE, P. D. Effects of changes in position of heart of chicken on electrocardiogram, 251

SUMMERS, J. E. Desoxycorticosterone acetate and blood pressure of dogs on a high sodium chloride intake, 119

SURTSHIN, A., 397

SWINYARD, E. A. AND J. E. P. TOMAN. Effects of alterations in body temperature on properties of convulsive seizures in rats, 207

Temperature, body, and convulsive seizures, 207
Thiamine and fructose utilization, 499
Thoracic pressure and heart volume, 273
Thorax pressure reflex, 428
Thyroxine metabolism in the goat, 1
Toman, J. E. P., 207
Turner, C. W., 1

Unipolar' extremity leads, 369
Uranium and renal function, 220
Urinary acidity, 174
Uric acid clearance, effect of sodium salicylate
on, 167

 $m V_{AGI}$ and crossed phrenic phenomenon, 417 Van Liere, E. J., 423

Van Loo, A., A. Surtshin and L. N. Katz. Nature of the two pressor responses to acute hypoxemia with some observations on the role of the adrenals in hypoxia, 397

Vanremoortere, E. Dissociation of potassium and acetylcholine sensitivity of frog muscle produced by isotonic glucose, 455

Ventricles, effect of inspiration on stroke volumes, 273

Ventricular shunts and cardiac response, 281

Vitamin D

effect on capillary permeability, 19 and T-1824, 19

W ALCOTT, W. W., 336

WALCOTT, W. W. AND I. J. DEYRUP. Cardiac effects of intravenous injection of small volumes of strongly hypertonic solutions, 328

WALKER, S. M. Action potentials in rat muscle with twitch tension potentiated by KCl treatment, adrenalectomy, tetanus and treppe, 63

WANG, C. C., M. I. GROSSMAN AND A. C. IVY. Effect of secretin and pancreozymin on amylase and alkaline phosphatase secretion by pancreas in dog, 358

WARE, A. G., 122

WARE, A. G., J. L. FAHEY AND W. H. SEEGERS. Platelet extracts, fibrin formation and interaction of purified prothrombin and thromboplastin, 140

WARREN, M. F., 475

WHITE, I. U., 188

WHITTENBERGER, J. L., 316

WIGGERS, C. J., 290

Wills, J. H. and E. Main. Renal function in normal rabbits and dogs and effect of uranyl salts, 220

WIRTS, C. W., 211, 506

WOOD, E. C., 451

WOODWARD, B. A., 94